

Title (en)
TURBO-SUPERCHARGER AND INTERNAL-COMBUSTION ENGINE

Title (de)
TURBOAUFLADER UND VERBRENNUNGSMOTOR

Title (fr)
TURBOCOMPRESSEUR ET MOTEUR À COMBUSTION INTERNE

Publication
EP 3744955 B1 20230503 (EN)

Application
EP 18909244 A 20180305

Priority
JP 2018008322 W 20180305

Abstract (en)
[origin: EP3744955A1] A turbocharger according to an embodiment is a turbocharger including a turbine housing for housing a turbine wheel rotary driven by an exhaust gas, a bearing housing for housing a rotational shaft on which the turbine wheel is mounted, the bearing housing being adjacent to the turbine housing, and a wastegate portion including a bypass passage and a valve body, the bypass passage allowing the exhaust gas to bypass the turbine wheel, the valve body being able to adjust a flow rate of the exhaust gas flowing through the bypass passage. In the turbine housing, a scroll passage for supplying the exhaust gas to the turbine wheel is formed by casting, at least on a radially outer side of the turbine wheel. A fastening portion for fastening the turbine housing and the bearing housing is disposed on a radially outer side of the scroll passage.

IPC 8 full level
F02B 39/00 (2006.01); **F01D 9/02** (2006.01); **F01D 17/10** (2006.01); **F01D 25/16** (2006.01); **F01D 25/26** (2006.01); **F02B 37/00** (2006.01); **F02B 37/18** (2006.01); **F02C 6/12** (2006.01)

CPC (source: EP US)
F01D 9/026 (2013.01 - EP US); **F01D 17/105** (2013.01 - EP US); **F01D 25/16** (2013.01 - EP); **F01N 13/10** (2013.01 - US); **F02B 37/183** (2013.01 - EP US); **F02B 39/00** (2013.01 - EP); **F02C 6/12** (2013.01 - EP US); **F02M 35/10157** (2013.01 - US); **F05D 2220/40** (2013.01 - EP US); **F05D 2230/10** (2013.01 - EP); **F05D 2230/21** (2013.01 - EP); **F05D 2240/15** (2013.01 - EP); **Y02T 10/12** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3744955 A1 20201202; **EP 3744955 A4 20201230**; **EP 3744955 B1 20230503**; CN 111630258 A 20200904; CN 111630258 B 20220531; JP 7037634 B2 20220316; JP WO2019171431 A1 20210204; US 11384683 B2 20220712; US 2021363915 A1 20211125; WO 2019171431 A1 20190912

DOCDB simple family (application)
EP 18909244 A 20180305; CN 201880087067 A 20180305; JP 2018008322 W 20180305; JP 2020504494 A 20180305; US 201816976315 A 20180305